Thursday, 6/29/2006 8:27:58 AM Kim Johnston **Process Sheet** : SADDLE FITTING, FWD (OUTBOARD/INBOARD) Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** Job Number : 27762 : 10531 **Estimate Number** : D2572 Part Number P.O. Number : NA S.O. No. : 110 6/29/2006 D2572 REV E This Issue **Drawing Number Project Number** : N/A Prsht Rev. : MACHINED PARTS : E First Issue Type **Drawing Revision** : N/A : 27057 Material **Previous Run** : 7/15/2006 **Due Date** Qty: 16 Um: Each Written By Checked & Approved By Comment : Est: | 02.10.02 Re-format; Change to Dwg Rev. D & incorporated D2572KJ **Additional Product** Job Number: Description: Sea. #: Machine Or Operation: 7075-T7351 8.25X5.0X2.5 1.0 D6101005 Comment: Qty.: 1.0000 Each(s)/Unit Total: 16.0000 Each(s) 7075-T7351 8.25X5.0X2.5 Make from D6101-005 billet for D2572 Ensure that grain is along 5.00" length Batch No: 2.0 HAAS1 HAAS CNC VERTICAL MACHINING #1 Comment: HAAS CNC VERTICAL MACHINING #1 Program Batch No. 1372462 Double check by: MS_OGIOTION 1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets 2-Machine, Step No 2 per Folio FA051 and inspect per attached Dimension Sheets 3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets 4-Deburr and remove all machining marks 5-Tumble to remove shap edges. 3.6/Ep 06/07/18 x/8 3.0 MILLING CONV. CONVENTIONAL MILLING MACHINE Comment: CONVENTIONAL MILLING MACHINE Machine keyway as per dwg D2571 & D2572

W/O:		WORK ORDER CHANGES									
DATE	STEP	PRO	CEDURE CHANGE	. -	. By	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector		
			- 4.1.								
									7		
	_					e.					

NCR: 2	7762	W	ORK OR	DER NON-CONFORMANCE	(NCR)							
		Description of NC	Corrective Action Section B			Verification	Approval	Approval				
DATE STE	SIEP	STEP	STEP	STEP	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Design Mgr	QC Inspector
edo#09	# 23	one (D) Pant SCRAP. "X' orgin on fourth Aus (3rd op) off by , 100" -first Ran.	Burn	Scent / clestry and Replace Reset orgin to correct value.	En oblobbog	4.7.10) Do	1607.10				
06.07.10	ン	Scadle-to-skid-tube holes offset to one side 0.500-dimension is 0.484	99 66.07.16 PW 951 6472	SCRAP -> clestray Ref DS email attached replace	En 66/07/14	4.273	96.67.16 14 PSI 642	6073				
	-						•	•				
			<u>.</u>									

PAR #: NA. Fault Category: Pow - CNC

NCR: Yes No DQA:

Date: <u>()6,07;20</u>

NOTE: Date & initial all entries

QA: N/C Closed:

Date: 06.07-21

Thursday, 6/29/2006 8:27:59 AM Date: User: Kim Johnston **Process Sheet** Drawing Name: SADDLE FITTING, FWD (OUTBOARD/INBOARD) Customer: CU-DAR001 Dart Helicopters Services Job Number: 27762 Part Number: D2572 Job Number: Seq. #: Description: **Machine Or Operation:** INSPECT PARTS AS THEY COME OFF MACHINE 4.0 QC2 Comment: INSPECT PARTS AS THEY COME OFF MACHINE 3.G SECOND CHECK 5.0 QC8 Comment: SECOND CHECK HAND FINISHING1 HAND FINISHING RESOURCE #1 6.0 Comment: HAND FINISHING RESOURCE #1 SAP. X16 Acid etch and Alodine as per QSI 005 4.1 06!0718 7.0 POWDER COATING POWDER COATING Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 INSPECT POWDER COAT/CHEMICAL CONVERSION 8.0 QC3 Comment: INSPECT POWDER COAT 9.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 10.0 DC Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion

Form: rprocess

Page 2

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector					
		· · · · · · · · · · · · · · · · · · ·	•	b.								
		•		·								
							·					

NCR:		W	WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Annroyal	Approval QC Inspector				
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Approval Design Mgr					
		,										
		•										
				·								

Part No:	PAR #:	Fault Category:	NCR:	Yes No DQA:	Date:
NOTE: Date & initial all entries	•	•		QA: N/C Closed:	Date:

DART AEROSPACE LTD	Work Order:	27762
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

				1	corded Actu	ıal Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	1	2	3	4.	Ву	Date
Α	0.438	0.443	DT8682	5441	0.441	e .441	0.441		
В	1.745	1.755		1747	1.747	1.746	1,747		
С	3.495	3.505		3.497	3.498	3. 447	3.447		
D	1.745	1.755		1.747	1.747	1.746	1.747		
E	7.990	8.010		8.000	8.000	8.001	8.000		
F	0.490	0.510		6.492	0.493	0.444	0.495		
G	0.257	0.262	DT8683	0.259	0.259	0.259	0.259		
Н	0.375	0.380	DT8684	0.377	0.377	0.377	0.377		
1	0.490	0.510		0.492	0.444	0. 495	0.496		
J	1.174	1.184		1178	1,178	1.17%	1,179		
K	0.558	0.578		0.560	0.561	0.563	0.563		
L	1.174	1.184		1.178	1.178	1-179	1 180		
М	1.490	1.500		1.453	1.494	1-495	1.497		
N	2.495	2.505		2.499	3.498	2.497	2.448		
0	3.869	3.879		3.870	3.871	3.872	3-874		
Р	0.115	0.135		0.124	0.125	P61.0	0.125		
Q	0.115	0.135		0.135	0.135	0.135	0/35		
R	0.240	0.260		0.253	0.254	0-254	0.352		
S	0.115	0.135		0.120	0.124	0.119	0-130		
T	0.178	0.198		0.198	6./89	0./98	0.188		
Ü	2.940	2.980		Z-960	7-260	2.960	2.960		
V	0.230	0.250		0.238	0-237	0.238	0.237		
W	0.115	0.135		0.125	0.124	0-123	0-134		
Х	0.307	0.312		6.310	0.310	0.316	0.3/0	Ì	
Υ	0.760	0.765		0.765	0.765	8. 765	5.765		
Z	0.352	0.372		0.358	0.359	0.361	6.364		
AA	0.470	0.530		0.200	6.500	0.500	0.500		
AB	0.615	0.635		0.619	0.680	0.621	0.634		
AC	0.053	0.073		0.063	0-063	0.063	0.063		•
AD	0.240	0.260		0.244	446.0	0.244			
AE	1.375	1.395		1.385	1 3864	1385	1304		
AF	0.115	0.135		0.135	0.121,	0./35	0./35		
AG	0.240	0.280		0.260	0.260	0.266	0.260		
АН	0.240	0.260		0.248	0.247	376.0	0-347		
ΑI	2.000	2.020		Was	Na	MA	NIA		
AJ	0.023	0.043		0.030	0.030	0.031	0.030		
	Acc	ept/Reje	ct						

Measured by:	6 /s.G	Audited by	$\mathcal{Q}_{\mathcal{Z}}$
Date:	06107110	Date:	06.07.13

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	- 1
E	05.12.05	Added dimension AJ	KJ/JLM 🚓	Gill

DART AEROSPACE LTD	Work Order:	27762
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

· · · · · · · · · · · · · · · · · · ·				Re	corded Actu	ıal Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
Α	0.438	0.443	DT8682	0.440	0.446	0.440	0.446		
В	1.745	1.755		1.749	1-748	1-747	1.745		
С	3.495	3.505		3.501	3.499		3.499		
D	1.745	1.755		1.748	1-747	1-746	1.745		
Е	7.990	8.010		8.001	8,001	8,000	8000		
F	0.490	0.510		8,501	0_501	0-500	0.492		
G	0.257	0.262	DT8683	0-258	0.258	0.358	o. <i>35</i> 8		
Н	0.375	0.380	DT8684	6.376	0.376	0.376	0.376		
ı	0.490	0.510		0-500	0.501	0.500	0.454		
J	1.174	1.184		0.568	1.180	1.179	1.175		
K	0.558	0.578			o- 298	0-567	0.561		
L	1.174	1.184		1,174	1-179	1-178	1.175		
М	1.490	1.500		1,497	1-498	1.496	1.492		
N	2.495	2.505		2.499	2-501	2.500	2.448		
0	3.869	3.879		3.874	3.873	3-874	3.872		
Р	0.115	0.135		0.130	0.198	0.127	0.126		
Q	0.115	0.135		0.128	0.126	0.131	6.135		
R	0.240	0.260		0.251	0.252	0.251	0.252		
S	0.115	0.135		6.125	6-124	0.122	0.73		
T	0.178	0.198		0.188	0.188	ତ. 1ଞ୍ଚଞ	୍ଦ୍ର । ଖଞ୍ଚ		
U	2.940	2.980		8. 961	0.188	2.961	2460		
V	0.230	0.250		0-240	0.241	0.240	0.237		
W	0.115	0.135		0-130	0.138	0.127	0.176		
Χ	0.307	0.312		0.309	0.310	0-309	6.310		
Y	0.760	0.765		6.761	0.761	0-761	0.761		
Z	0.352	0.372			0-364	0.365	0.367		
AA	0.470	0.530		0.500	0.500	0.500	0.500		
AB	0.615	0.635		0.630	0-629		0.622		
AC	0.053	0.073		0.063	0.063	0.063	0.063		
AD	0.240	0.260		0-249	6.244	0.244	0.246		
ΑE	1.375	1.395		1.388	1.389	1-387	1.386		No.
AF	0.115	0.135		0-134	0.135	0.135	0.135		
AG	0.240	0.280		0.040	0.241	0.240	0.260		
AH	0.240	0.260		0.250	0-252	0.253	0.247		
Al	2.000	2.020		NIA	0.252 N/A	N/A	NIA		
AJ	0.023	0.043		0.033	0.033	0.033	0.033		
	Acc	cept/Reje	ct					1 1	

Measured by:	20	Audited by	a >	
Date:	66713	Date:	06.07.13	

Rev	Date	Change	Revised by	Approved
Α	,	New Issue	RF ·	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF , ,	-1
E	05.12.05	Added dimension AJ	KJ/JLM A	Gul

DART AEROSPACE LTD	Work Order:	21762
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

· ·				Re	Recorded Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
A	0.438	0.443	DT8682	0.441	0.441	0.441	0.441		
В	1.745	1.755		1,745	1.748	4745	1.745		
С	3.495	3.505		3.497	3.498	3497	3-498		
D	1.745	1.755		1.745	1.748	1.745	1.745		
Е	7.990	8.010		7.999	8-001	8.006	7.999		
F	0.490	0.510		0493	0.491	6.496	6.495		
G	0.257	0.262	DT8683	0.259	0.259	0.259	0.259		
Н	0.375	0.380	DT8684		0.344	0.374	0.377		
ı	0.490	0.510		0.445	0.497	0.498	0.499		
J	1.174	1.184		1.175	1.175	1.178	0.499		
K	0.558	0.578		0.563	6.565	0.564	0.560		
L	1.174	1.184		1.175	1.175	1.178	1.177		
М	1.490	1.500		1.490	1.494	1.491	1.491		
N	2.495	2.505		2.445	2.497	2.495	2496		
	3.869	3.879		3.871	3872	3.870	3.873		
Р	0.115	0.135		6.124	0124	0.124	0126		
Q	0.115	0.135		0.135	6-/35	0-135	0./35		
R	0.240	0.260		0.251	0.752	0.252			
S	0.115	0.135		0.123	0.122	0-173	6.123		
T	0.178	0.198		0.188	0.188	0.188		· ·	
U	2.940	2.980		2-566	2.960	7.960	2.960		
V	0.230	0.250		6.235	0.237	0.739	0.238		
W	0.115	0.135		0.136	0.129	0131	0.128		
X	0.307	0.312		0.310	0.310	6.310	0.310		
Υ	0.760	0.765		0.765	6.765	0.765	0.745		
Z	0.352	0.372		0.360	0.365	0.362	0.362		
AA	0.470	0.530		0.500	0.500	0-500	0.500		
AB	0.615	0.635		0.621	6.622	0.671	0.624		
AC	0.053	0.073		0063	6.063	0-063	6063		
AD	0.240	0.260		B.Z 45	0.247	* 244 1384	6.244		
ΑE	1.375	1.395		1.384	1-384	1384	1.387		
AF	0.115	0.135		0-135	0-135	6.135	0.135		
AG	0.240	0.280		0.260	6-260	0.260	0.266		
AH	0.240	0.260		0.249	0.246	0749	6.247		
ΑI	2.000	2.020		wla	wla	who	NIB		
AJ 🏲	0.023	0.043	_	0-030	0.030	0-030	0.039		
	Acc	cept/Reje	ct						

Measured by	80	Audited by
Micasarda by.	9,	Addition by
Date:	26/62/11/	Date: O
	0000 777 9	

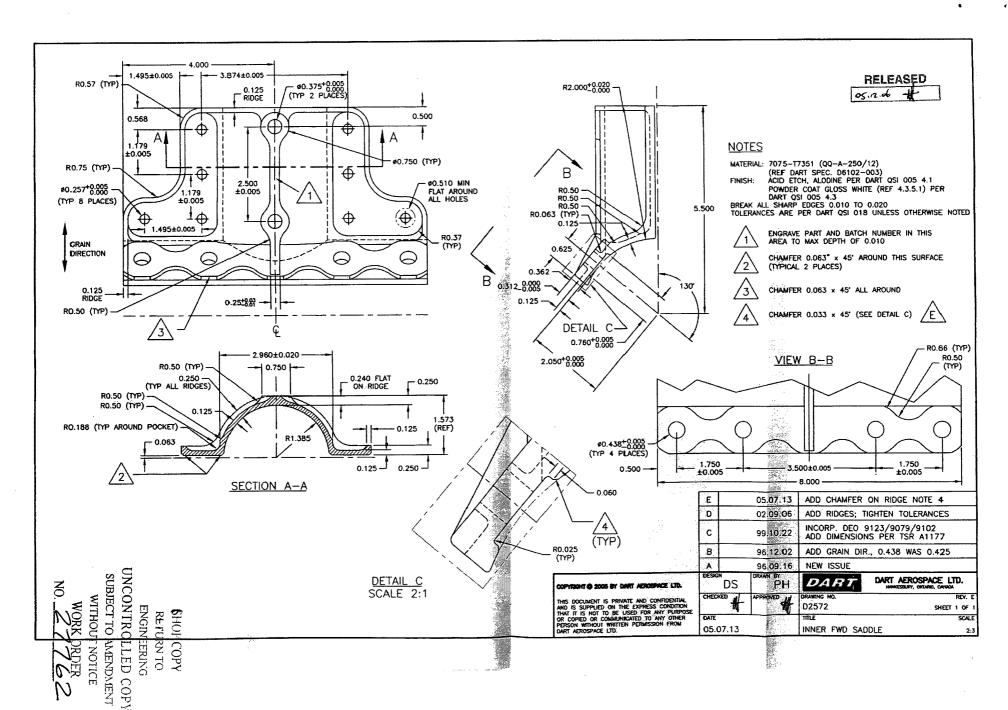
Date	Change	Revised by	Approved
	New Issue	RF	
02.09.24	Re-format; Added Rev. D	KJ	
02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
05.05.05	Added dimension Al	KJ/RF , ,	-1
05.12.05	Added dimension AJ	KJ/JLM 🚓	
	02.09.24 02.10.11 05.05.05	New Issue 02.09.24 Re-format; Added Rev. D 02.10.11 Re-format; Added DT8682, DT8683, DT8684 05.05.05 Added dimension Al	New Issue RF 02.09.24 Re-format; Added Rev. D KJ 02.10.11 Re-format; Added DT8682, DT8683, DT8684 KJ 05.05.05 Added dimension AI KJ/RF

escription: Saddle, Fwd Inboard	Work Order:	27762
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

			Recorded Actual Dimensions						
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
A	0.438	0.443	DT8682	0.441 .	6-44/	0.441	0.441		
В	1.745	1.755		1 747	1.746	1.746	1.745	,	
С	3.495	3.505		3.499	3.498	3.497	3-498		
D	1.745	1.755		1.748		1.746	1.746		
Е	7.990	8.010		8.001	8.000	8.000	8.002		
F	0.490	0.510		0.501	0.444	0 - 498	0,499		
G	0.257	0.262	DT8683	0.259	0.759	6-759	0.759		
Н	0.375	0.380	DT8684	0.377	6.373	6.373	0.377		
Ī	0.490	0.510		0-501	6.499	0.498	0,447		
J	1.174	1.184		1,180	1.179	1.18.0	1.180		
K	0.558	0.578		0-569	0.568	0.567	0.568		
L	1.174	1.184		1.179	1.174	1.180	1.179		
М	1.490	1.500		1 499	1.496	1.497	1.497		
N	2.495	2.505		2.498	2.497	3.496	2 445		
0	3.869	3.879	71.4	3.869	3.869		3.869		
Р	0.115	0.135	-	0.122	10.194	0.133	0.124		
Q	0.115	0.135		0.135	6/35	0-135	0-135		
R	0.240	0.260		0-250	6.248	0.247	BY6. a		
S	0.115	0.135		0-120		0.125	0.124		
Т	0.178	0.198		0.188	0188	0-188	0-188		
U	2.940	2.980		2.960	2.960	2.960	2 960		•
V	0.230	0.250		0.236	6.237	0.336	0.337		
W	0.115	0.135		0.124	0.135	0.126	0.135		
Х	0.307	0.312		0-316	6310	0:310	0.310		
Υ	0.760	0.765		0-765	0.765	0.765	0.765		
Z	0.352	0.372		0.365	0.364	0-363	6.364		
AA	0.470	0.530		0.500	0.500	0-500	0.500		
AB	0.615	0.635		0-698	0.624	0.693	0.691		
AC	0.053	0.073		0-063	0-063	0-063	0063		
AD	0.240	0.260		0.250	0.249	6.247	6-246		
ΑE	1.375	1.395		1.384	1.384	1.383	1,384		
AF	0.115	0.135		c-135	0/35	0./35	0.135		
AG	0.240	0.280		0.260	6-260	0.260	0.260		
AH	0.240	0.260		0.251	0.249		0.347		
ΑI	2.000	2.020		win	NA	NIA	~19		
AJ	0.023	0.043		0-030	0030	0-630	0-080		
	Acc	cept/Reje	ct						

Measured by: 5.6/	Audited by 5 D
Date: 06/00/115	Date: 06.01.18

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF , ,	- 1
Е	05.12.05	Added dimension AJ	KJ/JLM 🚓	Gill



Chris Provencal

From: David Shepherd [dshepherd@dartaero.com]

Sent: July 10, 2006 2:25 PM

To: 'Chris Provencal'

Subject: RE: NCR 205 Saddles

Lagree. Scrap them.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Monday, July 10, 2006 11:30 AM **To:** David Shepherd (David Shepherd)

Cc: 'Serge Shahbazian' Subject: NCR 205 Saddles

David:

D2572 Saddle, the saddle-to-skidtube holes are offset 0.016" to one side.

D2571 Saddle, the saddle-to-skidtube holes are offset 0.025" to one side.

I would be tempted to scrap them, at least the 0.025" one because I know how hard it is already to assembly the bushings into the saddles and have everything line up.

-Chris

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